LAKEAIR ELECTRONIC AIR CLEANERS
7 YEAR LIMITED WARRANTY

The complete LakeAir Electronic Air Cleaner is warranted by Air Aware Incorporated to the original purchaser to be free from defects in material and workmanship under normal use and service for a period of one year from the date of purchase. In addition, Air Aware, Inc. warrants the power supply module and transformer in the LakeAir Electronic Air Cleaner for an additional six (6) years, or a total of seven (7) years from the date of purchase to the original purchaser. LakeAir's liability is to be limited to repairing or replacing such products during the warranty period at its option, providing the product is sent prepaid to Air Aware, Inc. or an Authorized Service Center and is deemed to the satisfaction of Air Aware, Inc. to be defective in any part or portion.

This warranty is in lieu of any other warranty expressed or implied and of all other obligations or liabilities in connection with the sale of the described LakeAir Electronic Air Cleaner. In no case will any claim for consequential damages or labor expenses be allowed. This warranty does not apply to a LakeAir Electronic or any part thereof which has not been operated in accordance with the operating instructions herein contained; where components or other accessories not compatible with the LakeAir Electronic Air Cleaner have been used or attached to it; which has been subject to accident, unauthorized alteration, abuse, damage by flood, fire or acts of nature.

User's Responsibility

Please Note: Your warranty is subject to user responsibility. Some items and some conditions resulting from causes other than manufacturing defects are the responsibility of the user of the LakeAir Electronic Air Cleaner and are not covered by the warranty. These are:

1. To operate and maintain according to instructions.

2. Periodic checking and cleaning of unit. Failure to clean will void warranty.

3. Proper use of controls must be maintained or warranty will be voided.

4. Damage to unit from unsatisfactory operation because of blowing fuses, inadequate electrical service or operation on power supply other than that indicated on the rating plate, or incorrect electrical protection devices used.

5. Damage occurring during transportation or resulting from improper handling.

6. Damage due to accident or resulting from alteration or tampering.

7. Misapplication of product.

QUALITY lakeair PRODUCTS

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lakeair™

Portable Electronic air cleaners

Operating and Service Manual

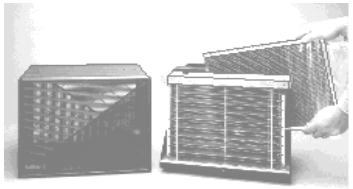
Excel (120v)
Excel (230v)
Maxum (120v)
Maxum (230v)

air aware INCORPORATED

Proudly Made in the U.S.A.

UNPACKING AND OPERATING INSTRUCTIONS

In order to operate your LakeAir Air Cleaner properly, it is necessary to remove plastic packing material from the carbon after filter inside the unit and cardboard.



1. Unscrew and remove the two fasteners from the top of the cabinet.

2. Lift the cover assembly from the chassis and set aside.

3. Remove the carbon after filter from behind the cell. Take off the protective packing material, remove cardboard, and discard.

4. Replace the carbon after filter, then the cover assembly, making sure to include both of the fasteners. NOTE: The fasteners must be in place and secured snugly or the unit will not operate.

Place your LakeAir Air Cleaner in a convenient area in the desired room. If you are using the air cleaner for a specific purpose, such as smoke removal, locate the air cleaner as close as possible to the source. (Such as near a smoking stand.) Allow at least 4-6" of unobstructed space behind the unit so that it will exhaust freely into the room. If, however, you position the unit so that the airflow is parallel to the nearest wall, you need not allow as much free space. For best results the unit should be elevated by placing it on a table or stand. It can also be mounted on a wall, using our convenient wall mount option.

Plug the line cord into a standard household outlet with 120V AC 60 Hz. Caution should be taken to use the unit only on the required voltage, as to do otherwise will void the warranty.

OPERATING AND MAINTENANCE INSTRUCTIONS

Position the unit and plug it into the proper line voltage before turning it on.

1. To turn unit on, locate the three-position rocker switch on top of the unit. Depress the button to activate the unit on the desired speed; *High, Low,* or *Off* (center, flat position). Under normal conditions, the *Low* position is adequate to keep an average size room clean. With excessive amounts of dust, smoke, or other pollutants present, the air cleaner should be operated on high.

2. To shut the unit off, simply push the button to its center (flat) position.

NOTE: It should be noted that occasionally a large particle will pass through the electronic cell and an arcing will occur, resulting in an audible cracking sound. This is normal and will not cause any damage to the unit.

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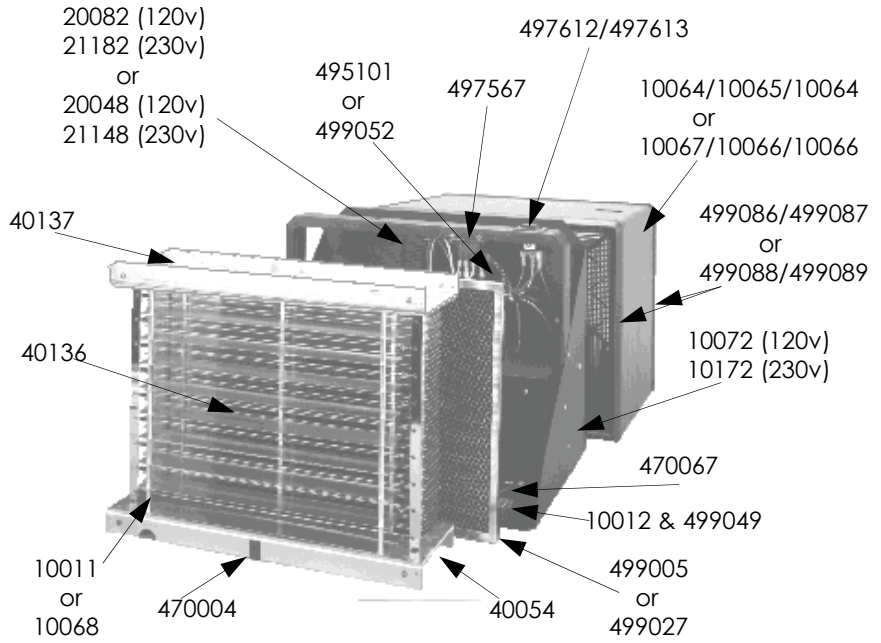

EXCEL PARTS

Part #	Description
10068	Electronic Filter Cell
499027	Carbon After Filter
10066	Cover Assembly– wood grain
10067	Cover Assembly-white
10066 Black	Cover Assembly-black
20082	Motor 120v
21182	Motor 230v
499052	Fan Blade
499086	Grille-Black
499087	Grille-Grey

MAXUM PARTS

Part #	Description
10011	Electronic Filter Cell
499005	Carbon After Filter
10064	Cover Assembly– wood grain
10065	Cover Assembly– white
10064 Black	Cover Assembly-black
20048	Motor 120v
21148	Motor 230v
495101	Fan Blade
499088	Grille-Black
499089	Grille-Grey

Common Parts

10012 & 499049	Cell Contact Bracket	40136	Ion Wires w/ S-Hooks and Springs (6)
40054	Ion Connector Strap	470067	High Voltage Wire Jiffy Clip Fastener
470004	Ground Screw U-Clip	497613	Grey Rocker Switch
497572A	Voltage Doubler	497612	Black Rocker Switch
10072	Transformer 120v	470068	Knurled Fasteners
10172	Transformer 230v	40137	Ceramic Insulators w/ Screws (4/8)
497567	Micro Switch		

Note:
Above items are available from your local LakeAir dealer.

TROUBLESHOOTING YOUR LAKEAIR ELECTRONIC AIR CLEANER

Some of the common causes for malfunction of your air cleaner are listed below. Review them should you have a problem, and perform the corrective measures listed here. If your LakeAir Electronic Air Cleaner is not restored to proper operation, contact your Dealer, nearest Authorized Service Center, or Air Aware.

Problem	Possible Cause	Possible Remedy
Air cleaner will not operate	Control switch is in *Off* Position	Depress power switch to *High* or *Low*
	Power cord not plugged in	Plug in power cord
	Blown fuse in household or breaker tripped.	Reset breaker
	Cover removed	Replace cover
	Cover fasteners not tight	Tighten fasteners snugly
Small volume of air discharged from unit	Extremely dirty electronic filter (cell)	Clean according to Instructions
	Plastic packing still on carbon after filter	Remove plastic wrap
Unit not effectively cleaning the air	Electronic filter dirty	Clean according to Instructions
	Electronic filter is not properly installed	Check reassemble instructions
Continuous "arcing" or snapping noise	Excessive accumulation of dirt on the electronic filter	Clean according to Instructions
	Electronic filter still damp	Allow filter cell to dry Completely
	Bent or damaged plate on electronic filter. (cell)	Check and straighten
Odors more pronounced than usual	Service life of carbon after filter expired	Discard and replace the carbon after filter
	Air cleaner being used in a confined space	Open doors to the adjoining rooms

If any of the problems are not solved to your satisfaction, please contact your Dealer or Air Aware

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Maintenance

Your LakeAir Air Cleaner is a high quality, precision piece of equipment designed for long years of satisfactory performance. Adhere to a regular maintenance schedule and no problems should occur. This unit should be checked periodically for "dust load" and cleaned if found to have a large accumulation of dust and lint. Under regular conditions cleaning can be done once every 2 or 3 months. Under more severe conditions more frequent cleaning may be required. **To obtain maximum efficiency from your LakeAir Electronic Air Cleaner it must be kept clean.**

In addition to the grilles and electronic cell, care should be taken to keep the rest of the unit clean as well.

Disassembly and Cleaning

1. Turn off unit and disconnect line cord from outlet.

2. Remove fasteners from cover assembly.

3. Lift cover from chassis.

4. Remove ground screw from base of chassis connecting chassis to the electronic cell. Lift cell from chassis, being careful not to bend any of the plates on the electronic cell.

5. The electronic cell may be cleaned in a number of ways:

A. the best way is to soak it in a container of hot water with diluted dishwasher detergent or other cleaner that is safe for aluminum. After soaking for 10-15 minutes, agitate the filter (cell) in the solution to release some of the particles. Alkaline cleaners, such as our LA-99 heavy duty cleaning solution, may be used with care. Be certain to read and follow all directions carefully to avoid damage to the aluminum cell components caused by harsh chemical agents. LA-99 can be obtained through your dealer or by calling Air Aware directly.

B. It may be necessary, if the cell is extremely dirty, to repeat the soaking process or to take a small soft brush to the plates of the cell. If this is done, care should be taken not to damage the plates or the fine ion wires. After soaking, rinse off all traces of the detergent with clean warm water and allow the excess to drain off.

C. The electronic cell may also be washed in the normal cycle of a household dishwasher, but caution should be taken to avoid damage to the plates of the unit.

6. Do not wash the carbon after filter. This filter should be brushed or cleaned with a vacuum cleaner if any dust is present. This filter should also be replaced when there is an indication that it is no longer absorbing odors. Normal replacement is approximately every 3-4 months.

NOTE: TO INSURE PROPER OPERATION, FILTERS SHOULD BE CLEANED AT REGULAR INTERVALS. FAILURE TO CLEAN ELECTRONIC FILTER WILL VOID THE WARRANTY.

Reassembly

1. Before replacing the cell into the chassis, make sure the cell is completely dry. Place the dry electronic filter (cell) back on the chassis, making sure the wider spaced plates (ionizer section) face the outside of the unit. Also make sure the handle is at the top of the unit.

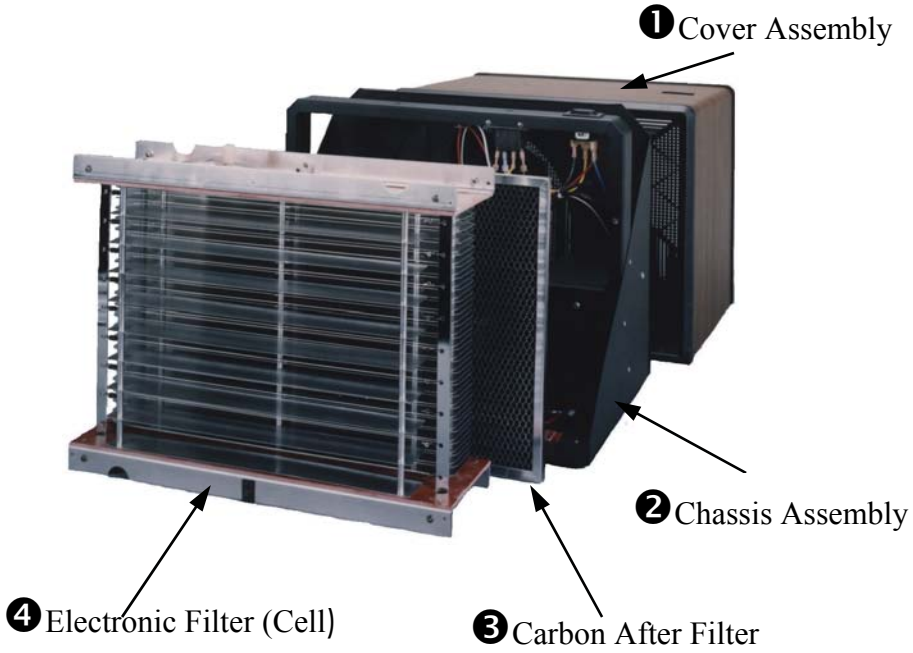
2. Insert the ground screw in the proper location and tighten.

3. Place the carbon after filter back into the unit with the wire mesh side away from the electrostatic cells. Replace ground screw at the base of the chassis.

4. Replace the cover assembly and secure with the fasteners.

5. Before plugging the unit in, make sure the power button is in the *Off* position. Plug in the line cord and turn the unit on to the *High* or *Low* position. If arcing occurs, turn the unit off until the electronic filter cell has been dried completely.

DESCRIPTION OF PARTS



1. COVER ASSEMBLY: The vinyl covered metal cover assembly is secured to the chassis by means of two screw fasteners on top of the unit. The cover assembly includes the two grille sections.

2. CHASSIS: The chassis consists of the base of the Excel or Maxum and has several components of the unit attached to it. The motor and fan, power supply, control switch, and all internal wiring are found in the chassis.

3. CARBON AFTER FILTER: The carbon after filter is standard in all Excel or Maxum units and is used as an after filter to remove unpleasant odors from the cleaned air.

4. ELECTRONIC FILTER (CELL): The electronic cells of the LakeAir Air Cleaner performs the major function of the air cleaner by removing the particles from the air. The cell is activated by the power supply and is designed to remove even the smallest particles, down to 0.01 microns in size, or 1/25,400 of 1 inch.

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HOW A LAKEAIR UNIT WORKS

In a business establishment or in your home, millions of airborne particles are continually being circulated in the air you breathe. A LakeAir Electronic Air Cleaner removes: smoke, dust, dirt, pollen, and other particulates in the air with an electrostatic process.

1. The internal circulating fan draws the dirty air into the system where it first must pass through the outer grille.

2. The air then passes into the ELECTRONIC CELL where it encounters the IONIZING SECTION with its many fine ion wires. These wires charge the airborne particles by exciting them with a high electrical charge. As the charged particles move along to the collecting section, they are trapped by the collector plates much like a magnet attracts and collects metal filings.

3. The optional ACTIVATED CARBON AFTER FILTER, the final filter in the system, removes odors and freshens the air.

4. The cleaned and purified air is then returned to the room environment.

SPECIFICATIONS

	EXCEL 120v	**EXCEL 230v**	**MAXUM 120v**	**MAXUM 230v**
Input Voltages:	120v 60 Hz 72 Watts	230v 50 Hz	120v 60 Hz 102 Watts	230v 50/60 Hz
Cleaning Capacity:	Low: 70 cfm High: 110 cfm	Low: 1.98 m3/min. High: 3.12 m3/min.	Low: 210 cfm High 275 cfm	Low: 5.95 m3/min. High: 7.79 m3/min.
Actual Size:	13” x 17” x 8”	33cm x 43.2cm x 20.3cm	13.5” x 13” x 17”	34.3cm x 33cm x 43.2cm
Actual Weight:	17 lbs	7.7 kg	24 lbs	10.9 kg
Shipping Size:	19” x 15.5” x 10”	48.3cm x 39.4cm x 25.4cm	19” x 15.5” x 15.5”	48.3cm x 39.4cm x 39.4cm
Shipping Weight:	22 lbs	9.9 kg	29lbs	13.2 kg